

From: [Gray, David](#)
To: [Turner, Philip](#); [Rauscher, Jon](#); [Meyer, John](#); [Miller, Garyg](#)
Subject: RE: draft response = please read
Date: Tuesday, September 26, 2017 2:16:00 PM

REVISED (3)

On background - they report that we see an historical range of 0.108 to 6.54 ng/kg TEQ dioxin in surface sediment in the San Jacinto River. The preliminary sediment result was within that range. Water samples collected in 2016 before the hurricane ranged between 0.309 pg/L and 0.681 pg/L of TEQ dioxin. The preliminary water samples were similar.

I am trying to get an ETA on when we will have the qualified data package so that I can get it to you and post on our website.

From: Turner, Philip
Sent: Tuesday, September 26, 2017 2:15 PM
To: Gray, David <gray.david@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Meyer, John <Meyer.John@epa.gov>; Miller, Garyg <Miller.Garyg@epa.gov>
Subject: RE: draft response = please read

Just one more thing... Just Kidding. Looks great!!

From: Gray, David
Sent: Tuesday, September 26, 2017 2:13 PM
To: Turner, Philip <Turner.Philip@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Meyer, John <Meyer.John@epa.gov>; Miller, Garyg <Miller.Garyg@epa.gov>
Subject: RE: draft response = please read

REVISED (2)

On background - they report that we see an historical range of 0.108 to 6.54 ng/kg TEQ dioxin in surface sediment in the San Jacinto River. The preliminary sediment result within that range. Water samples collected in 2016 before the hurricane ranged between 0.309 pg/L and 0.681 pg/L of TEQ dioxin. The preliminary water samples were similar.

I am trying to get an ETA on when we will have the qualified data package so that I can get it to you and post on our website.

From: Turner, Philip
Sent: Tuesday, September 26, 2017 2:11 PM
To: Gray, David <gray.david@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Meyer, John <Meyer.John@epa.gov>; Miller, Garyg <Miller.Garyg@epa.gov>

Subject: RE: draft response = please read

Excellent... but in this case, you can remove “within EPAs site boundary”. The numbers I gave you are for the SJ River going several miles upstream.

From: Gray, David

Sent: Tuesday, September 26, 2017 2:02 PM

To: Turner, Philip <Turner.Philip@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Meyer, John <Meyer.John@epa.gov>; Miller, Garyg <Miller.Garyg@epa.gov>

Subject: RE: draft response = please read

REVISED

On background - Within EPA's site boundary for the San Jacinto River Waste Pits site – they report that we see an historical range of 0.108 to 6.54 ng/kg TEQ dioxin in surface sediment. The preliminary sediment result was below that. Water samples collected in 2016 before the hurricane ranged between 0.309 pg/L and 0.681 pg/L of TEQ dioxin. The preliminary water samples were similar.

I am trying to get an ETA on when we will have the qualified data package so that I can get it to you and post on our website.

From: Turner, Philip

Sent: Tuesday, September 26, 2017 1:40 PM

To: Gray, David <gray.david@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Meyer, John <Meyer.John@epa.gov>; Miller, Garyg <Miller.Garyg@epa.gov>

Subject: RE: draft response = please read

Ok, the sediment background is a little more complicated. You got me to thinking, so I wanted to verify some stuff.

Nevermind the 4-20 ng/Kg. That range includes data from the University of Houston and might not be as representative. From the specific studies we did for San Jac (and documented in the RI):

Surface sediment background had a range of 0.108 to 6.54 ng/kg TEQ. The mean was 1.17 ng/kg TEQ.

The 7 ng/kg (actually 7.2) is a statistical number, called a 95% Upper Tolerance Limit... which means that 95% of the time, background concentrations would be below this 7.2 ng/kg TEQ.

Either way, our sediment sample post-harvey is within this range AND below the 7.2 ng/kg TEQ.

I recommend just providing the range and/or mean. Nevermind the 4-20, OR the 7.2

Sorry for the confusion...

Phil

From: Gray, David

Sent: Tuesday, September 26, 2017 1:04 PM

To: Turner, Philip <Turner.Philip@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Meyer, John <Meyer.John@epa.gov>; Miller, Gary <Miller.Gary@epa.gov>

Subject: RE: draft response = please read

How about?

On background - Our team reports that historical levels of TEQ (Toxic Equivalency Values) dioxin in sediment within the San Jacinto watershed ranges from about 4 to 20 ng/kg. Within EPA's site boundary for the San Jacinto River Waste Pits site – they report that we see an historical average of about 7 ng/kg TEQ dioxin. The preliminary sediment result was below that. Water samples collected in 2016 before the hurricane ranged between 0.309 pg/L and 0.681 pg/L of TEQ dioxin. The preliminary water samples were similar.

I am trying to get an ETA on when we will have the qualified data package so that I can get it to you and post on our website.

From: Turner, Philip

Sent: Tuesday, September 26, 2017 1:01 PM

To: Gray, David <gray.david@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Meyer, John <Meyer.John@epa.gov>

Subject: RE: draft response = please read

The 7 ng/kg TEQ background number is not really for “above the caped area”. It is more surrounding the site in general... “within the EPA's Preliminary Site Boundary” perhaps

Phil

From: Gray, David

Sent: Tuesday, September 26, 2017 12:37 PM

To: Turner, Philip <Turner.Philip@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Meyer, John <Meyer.John@epa.gov>

Subject: draft response = please read

Hi Sheila,

Here is some additional details for you.

On background - Our team reports that historical levels of TEQ (Toxic Equivalency Values) dioxin in sediment within the San Jacinto watershed ranges from about 4 to 20 ng/kg. At San Jacinto Waste Pits within EPA's site boundary – they report that we see an historical average of about 7 ng/kg TEQ dioxin. The preliminary sediment result was below that. Water samples collected in 2016 before the hurricane ranged between 0.309 pg/L and 0.681 pg/L of TEQ dioxin. The preliminary water samples were similar.

I am trying to get an ETA on when we will have the qualified data package so that I can get it to you and post on our website.

David